

FIG.1

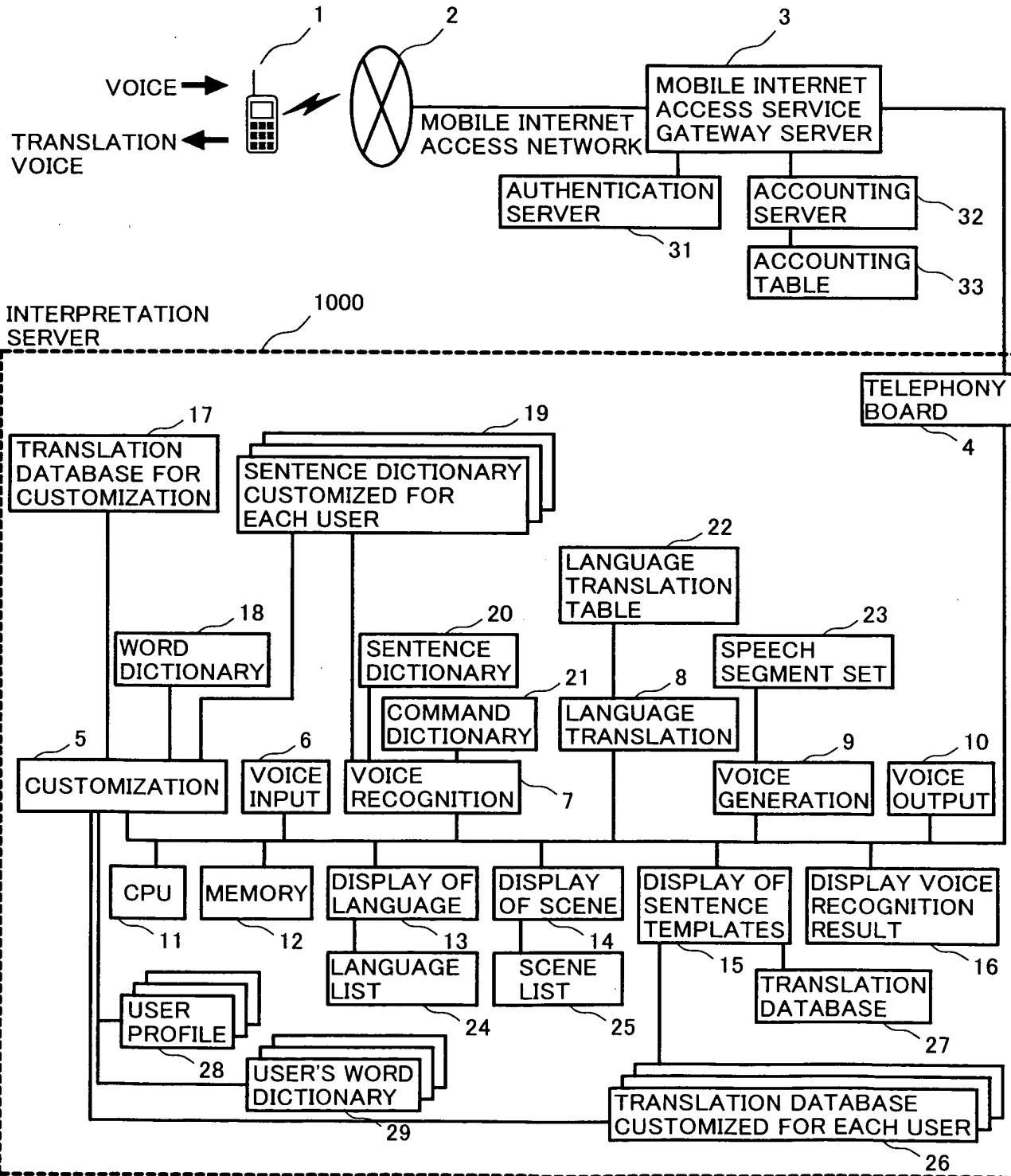


FIG.2

201	WAVE	
202	CSTRING	
203	JAPANESE	
204	ICNT	
205	RECOGS(1)	
	RECOGPNUM(1)	
	RECOGSNUM(1)	
	:	
	RECOGS(N)	
	RECOGPNUM(N)	
	RECOGSNUM(N)	
206	RESULT	
207	SYNWAVE	
208	JCNT	
209	LANG	
210	SCENE	
211	BSSENTENCE	
212	CSSENTENCE	
213	PCAND	
214	SCAND	
215	INDEX	
	:	

FIG.3

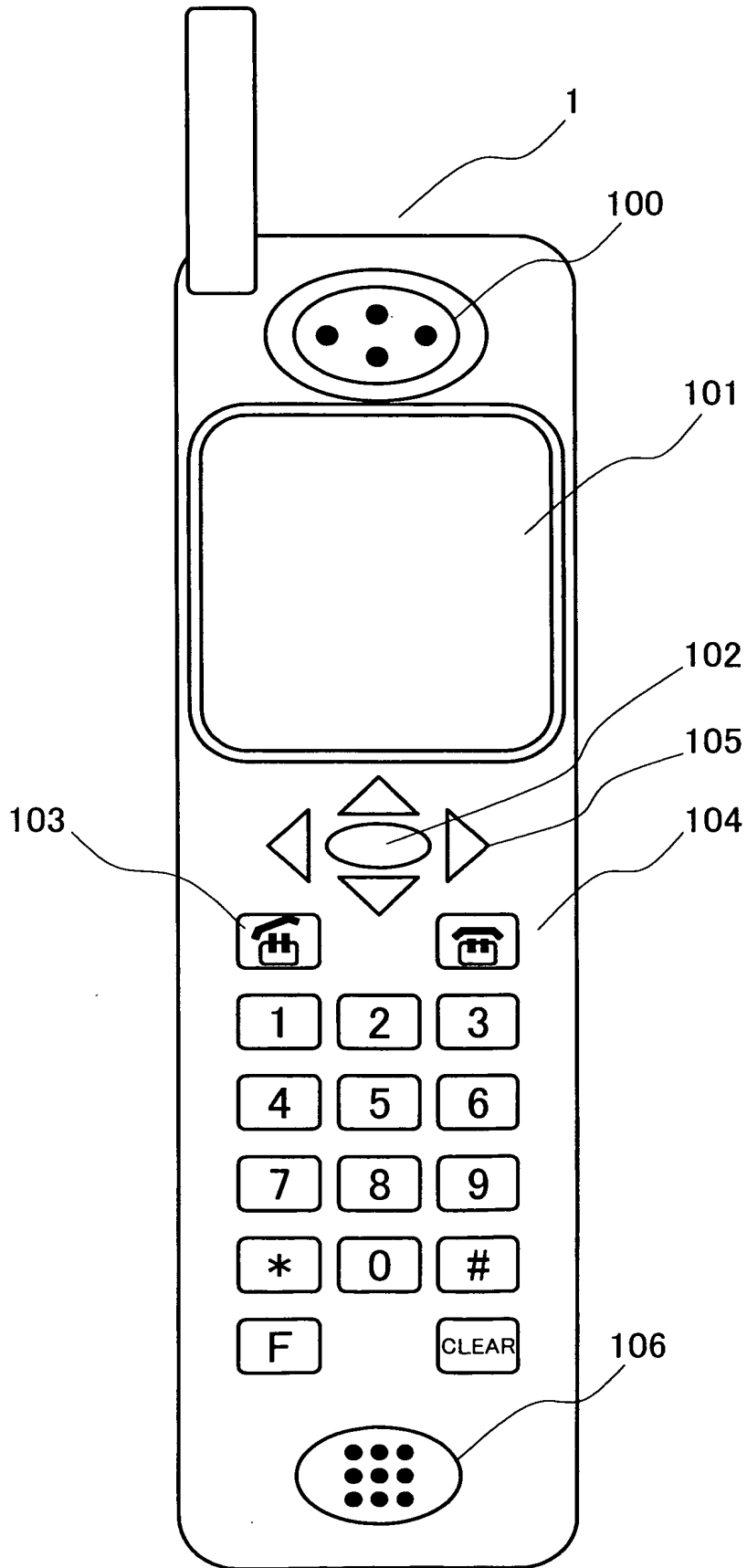


FIG.4

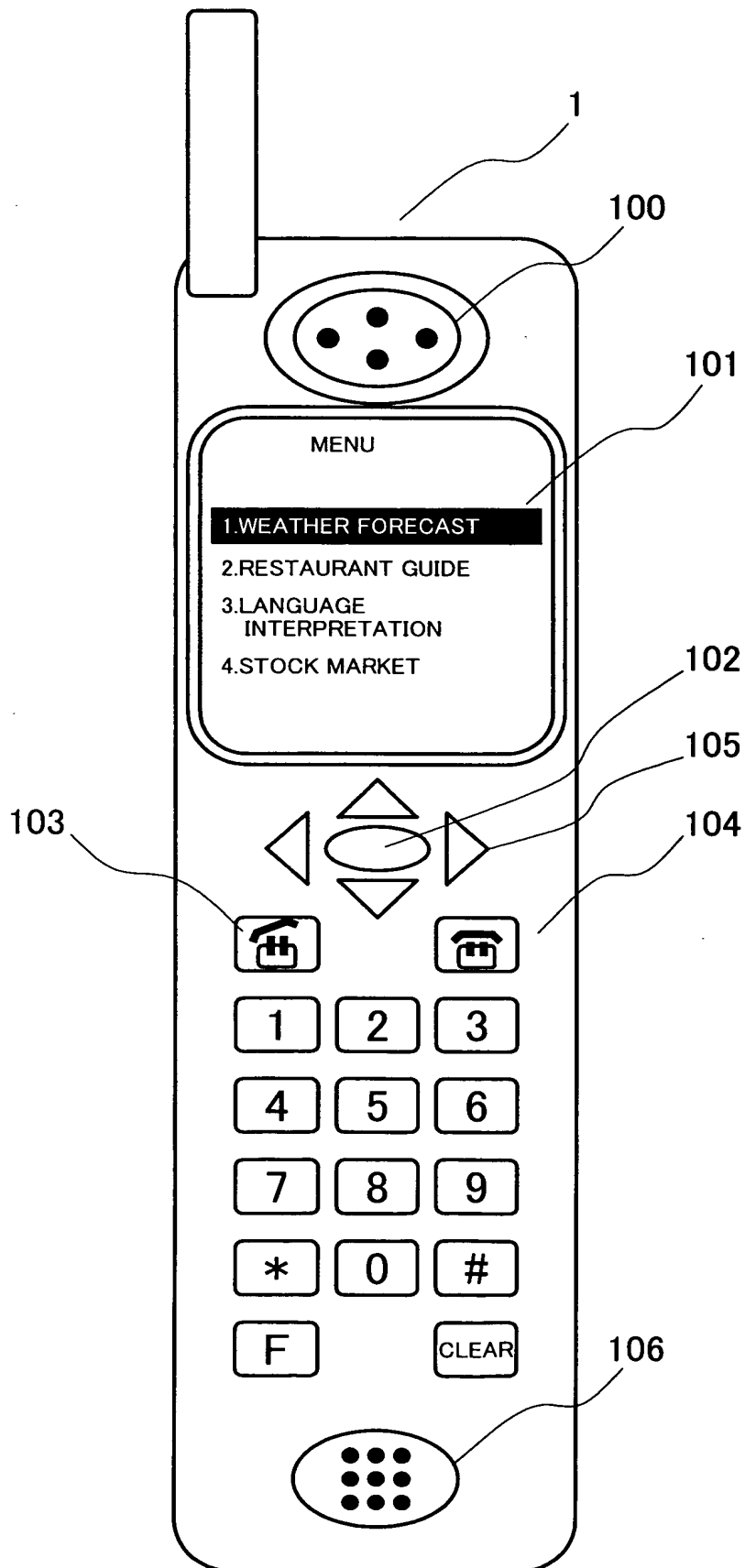


FIG.5

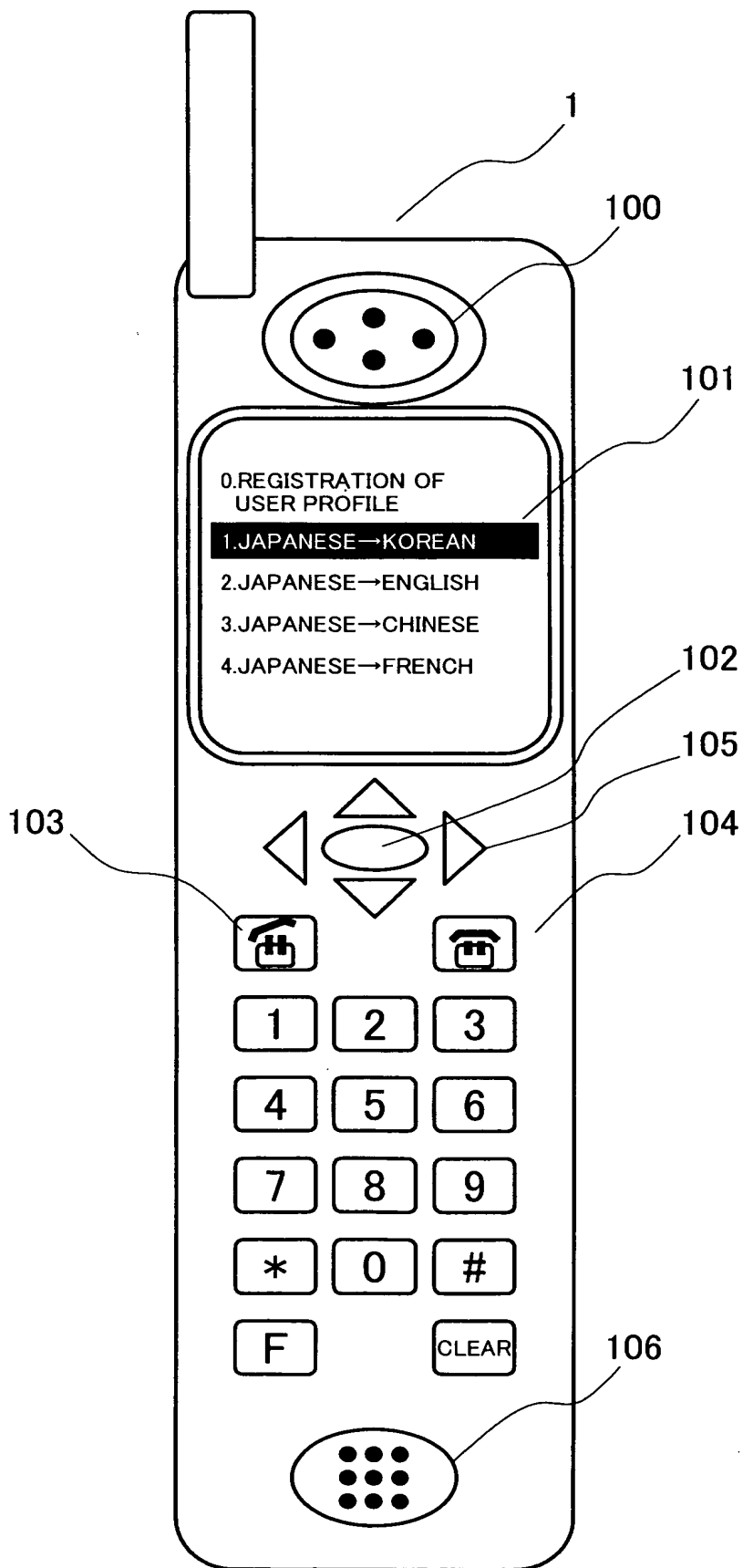


FIG.6

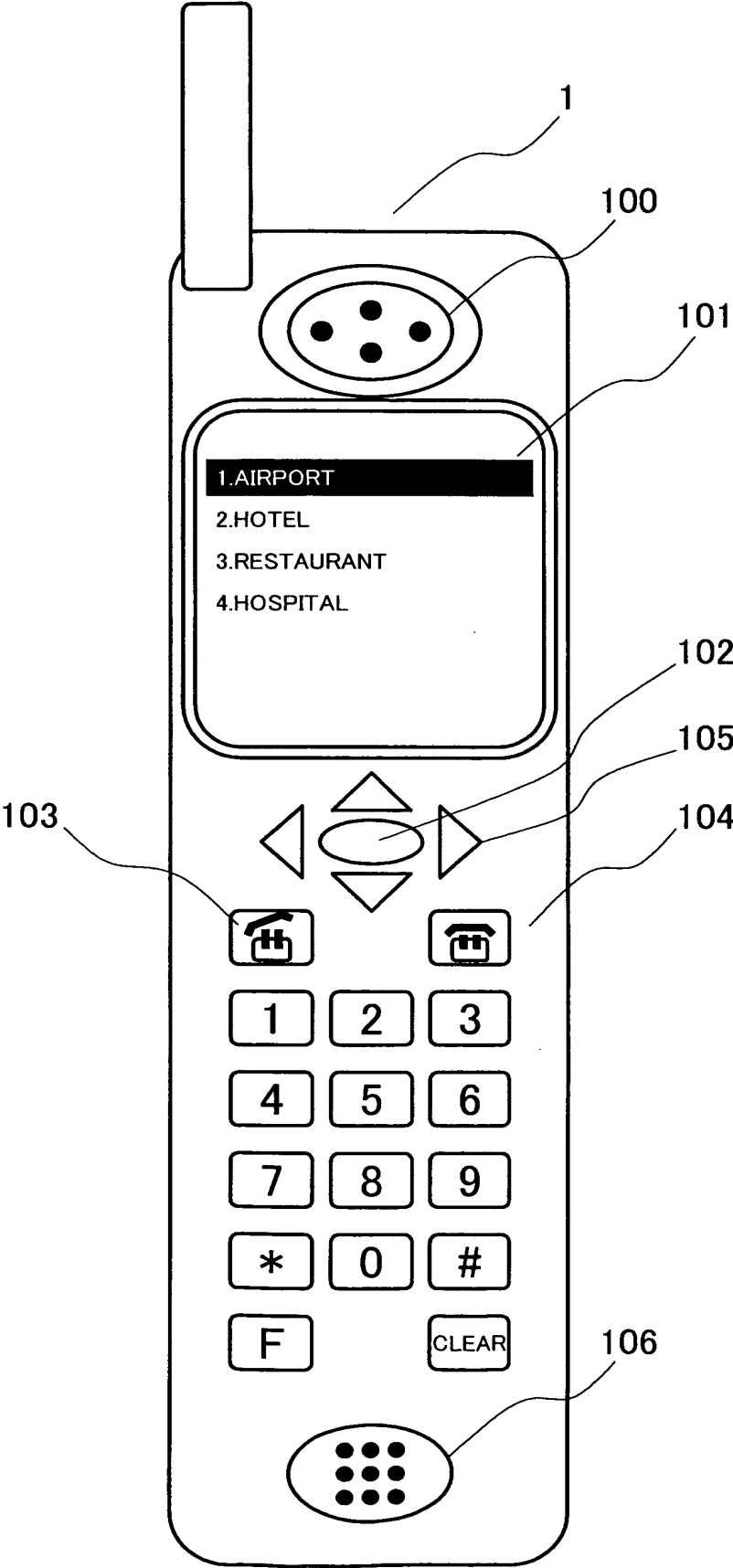
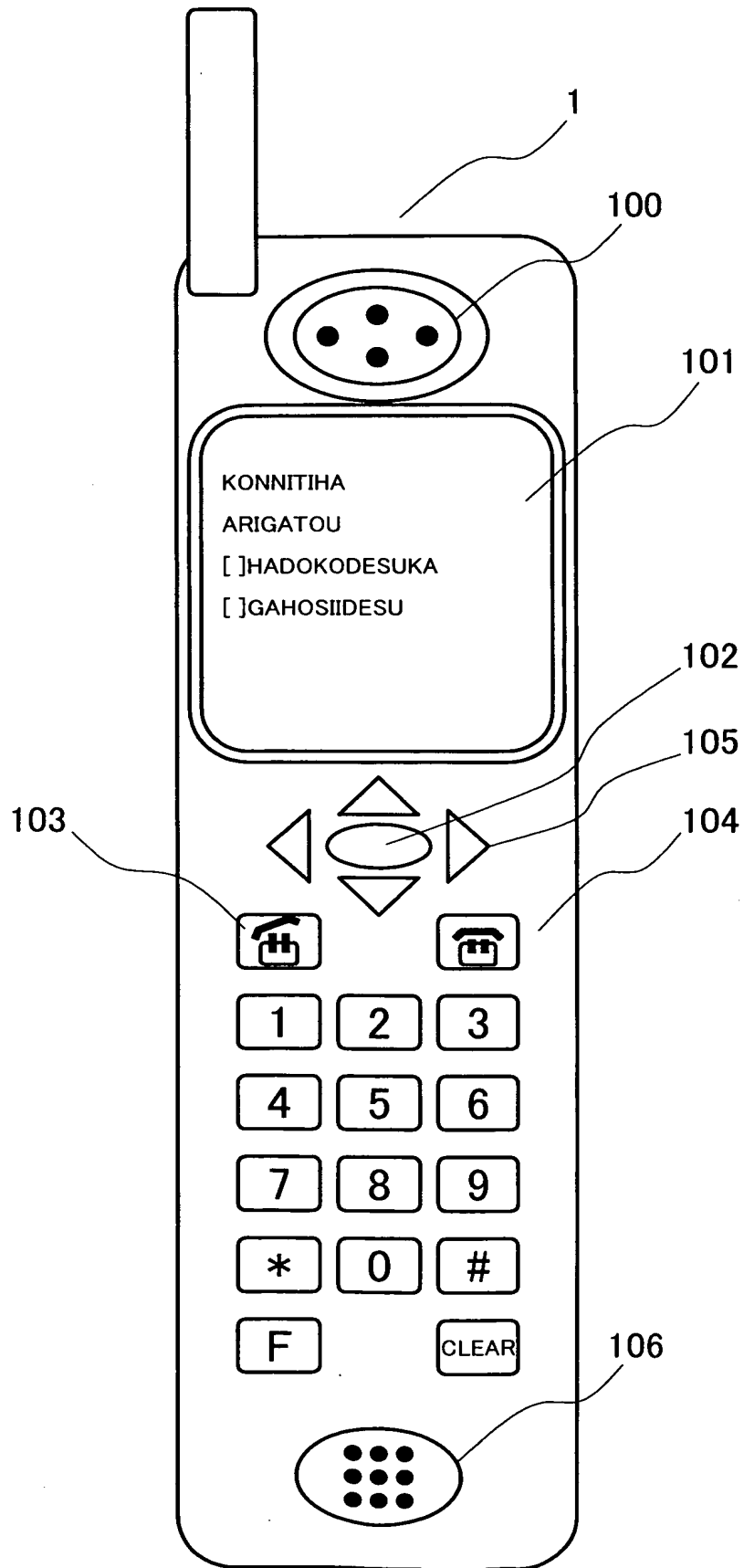


FIG.7



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FIG.8

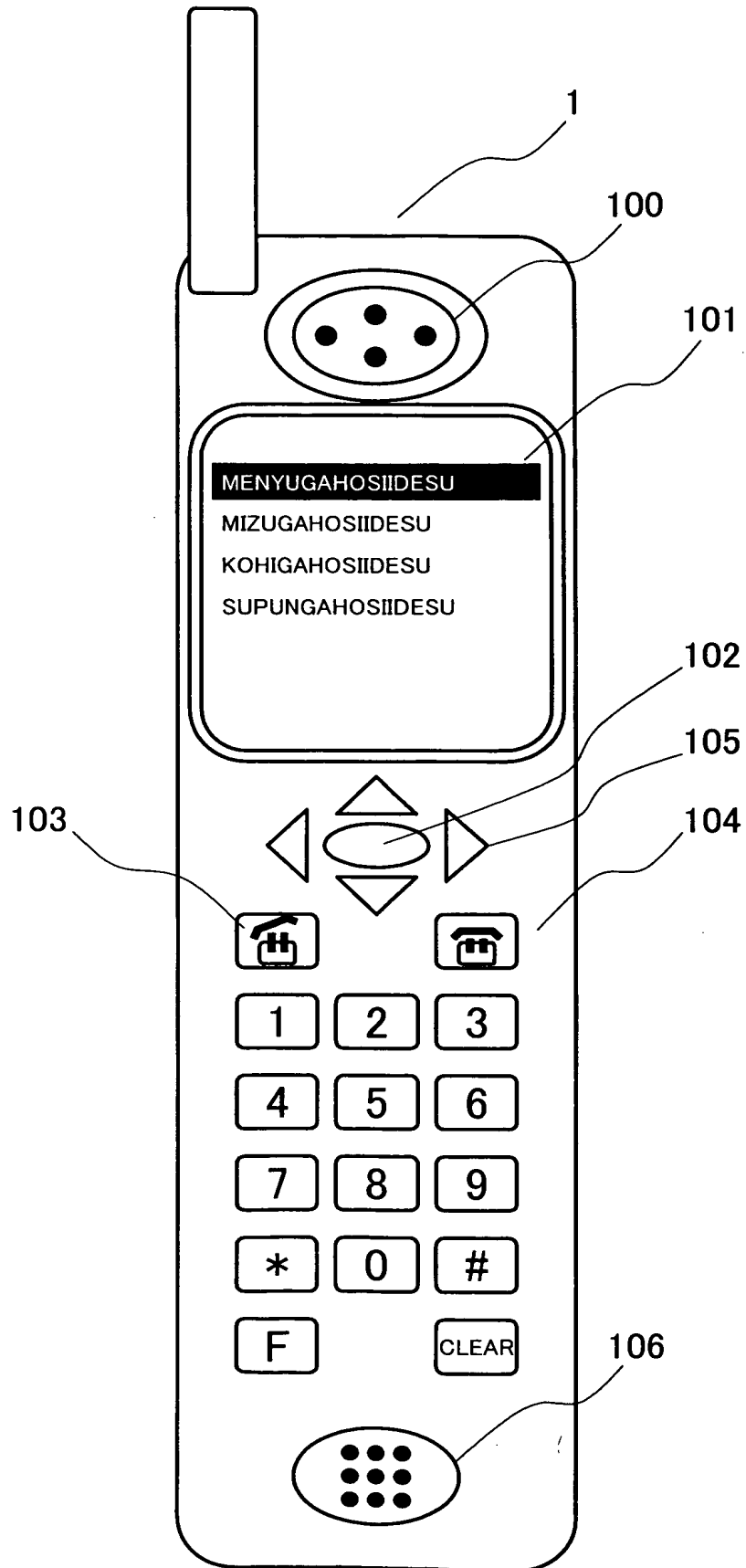


FIG.9

SENTENCE TEMPLATE NUMBER		SENTENCE NUMBER	TRANSLATION		
			1	2	...
:		:	:	:	:
3004		3004001	...	I'D LIKE TO HAVE A GLASS OF WATER.	...
3004		3004002	...	CAN I SEE THE MENU?	...
3004		3004003	...	I'D LIKE TO HAVE A CUP OF COFFEE.	...
3004		3004004	...	I'D LIKE TO HAVE A SPOON.	...
:		:	:	:	:

FIG.10

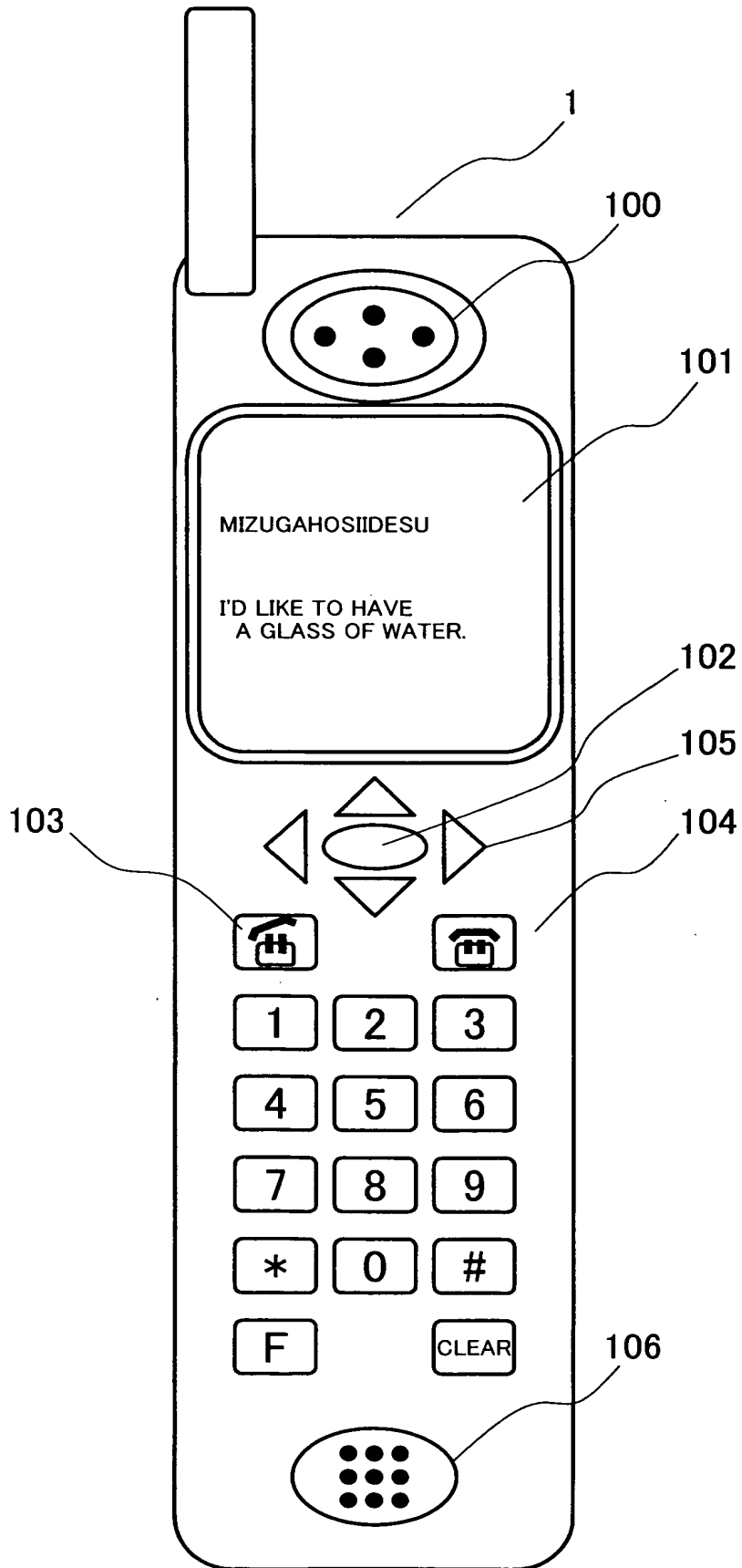


FIG.11

	3311	3312
	USER ID	CHARGE
	:	:
3301	1234	100
3302	1235	0
3303	1236	300
3304	1237	850
	:	:

FIG.12

	2411	2412
	LANGUAGE NUMBER	LANGUAGE
2401	1	JAPANESE→KOREAN
2402	2	JAPANESE→ENGLISH
2403	3	JAPANESE→CHINESE
2404	4	JAPANESE→FRENCH
	:	

FIG.13

	2511	2512
	SCENE NUMBER	SCENE
2501	1	AIRPORT
2502	2	HOTEL
2503	3	RESTAURANT
2504	4	HOSPITAL

FIG.14

	2711	2712	2713
	SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE
	1	1001	[]HADOKODESUKA?
	:	:	
2701	3	3001	KONNITIHA
2702	3	3002	ARIGATOU
2703	3	3003	[]HADOKODESUKA?
2704	3	3004	[]GAHOSIIDESU
2705	3	3005	[]HAARIMASUKA?
	:	:	

FIG.15

	2011	2012	2013	2014
	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES FEATURE VECTORS
2001	1001	1001001	KONNITIHA	A11,A12,...
2002	1002	1001001	ARIGATOU	A21,A22,...
	:	:	:	:
2003	3004	3004001	MIZUGAHOSIIDESU	A31,A32,...
2004	3004	3004002	MENYUGAHOSIIDESU	A41,A42,...
2005	3004	3004003	KOHIGAHOSIIDESU	A51,A52,...
2006	3004	3004004	SUPUNGAHOSIIDESU	A61,A62,...
	:	:	:	:

FIG.16

	2111	2112	2113
	COMMAND NUMBER	COMMAND	TIME SERIES FEATURE VECTORS
2101	1	OK	B11,B12,...
2102	2	NEXT	B21,B22,...
2103	3	QUIT	:
	:		B31,B32,...

FIG.17

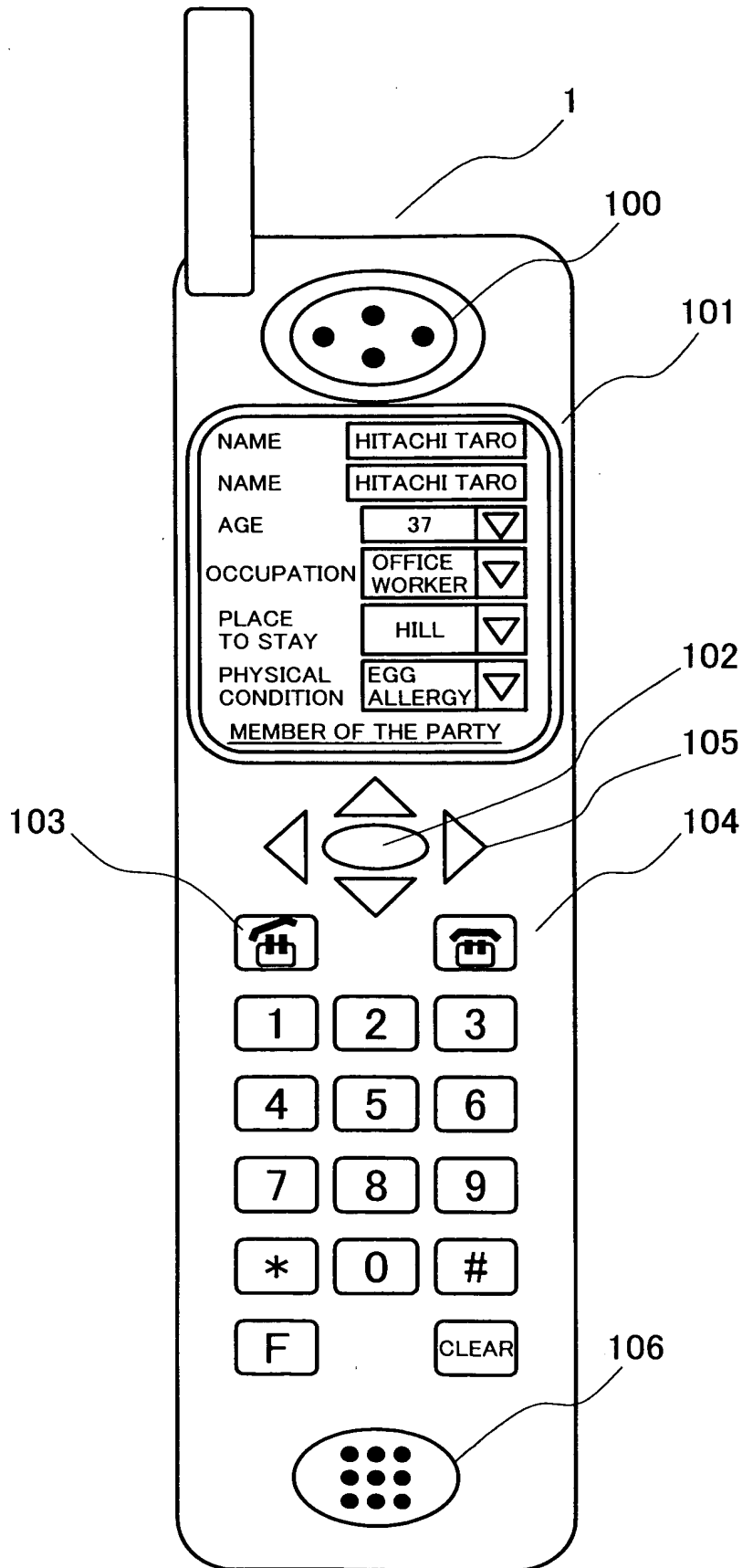


FIG.18

	2811	2812	2813	2814	2815
NAME	HITACHI	TARO	HITACHI	TARO	
AGE/SEX	37	MALE			
OCCUPATION	OFFICE WORKER				
DESTINATION	MIAMI				
PLACE TO STAY	FEBRUARY 12	FEBRUARY 17	HILL	HILL	
FLIGHT NUMBER					
PHYSICAL CONDITION	EGG ALLERGY				
FOOD LIST	STONE CRAB	OYSTER	KEY LIME PIE		
SHOPPING LIST					
:					
MEMBER OF THE PARTY	2				
:					
NAME	HITACHI	KOTARO			
AGE/SEX	11 MONTH	MALE			

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FIG.19

1711	1712	1713	1714	1715	1716	1717	1718
SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE	SLOT	SELECTION CONDITION FOR SENTENCE TEMPLATE	TRANSLATION TEMPLATE	GRAMMATICAL INFORMATION FOR SLOTS	PRONUNCIATION INFORMATION FOR SENTENCE TEMPLATE
1701	1001	[]HADOKO DESUKA?	<LOCATION>		WHERE IS []?		[]HADOKO DESUKA?
1702	1002	KONOBASU HA[]NI IKIMASUKA?	<LOCATION>		DOES THIS BUS GO TO []?		KONOBASU HA[]HE IKIMASUKA?
	:						
1703	3004	[]GAHOSII DESU	<FOOD>		I'D LIKE [].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[]GAHOSII DESU
1704	3005	[]HA ARIMASUKA?	<FOOD>		DO YOU HAVE []?	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[]HA ARIMASUKA?
1705	3006	[]ARERUGI DESU	<FOOD>	PHYSICAL CONDITION <ALLERGY	I'M ALLERGIC TO [].	PLURAL FORM OF COUNTABLE NOUN SINGULAR FORM OF UNCOUNTABLE NOUN	[]ARERUGI DESU
	:						
1706	4003	[]GA HIKITUKEWO OKOSIMASITA		MEMBER OF THE PARTY <INFANT	[] HAS GONE INTO CONVULSIONS.		[]GA HIKITUKEWO OKOSIMASITA
1707	4004	KOUKETUATU DESU		PHYSICAL CONDITION < HIGH BLOOD PRESSURE.	I HAVE HIGH BLOOD PRESSURE.		KOUKETUATU DESU

FIG.20

1811	1812	1813	1814	1815	1816	1817	1818
KAKI	KAKI	KAKI	COMMON NOUN	<FOOD> <LIVING THING>	OYSTER	XCISTXER	COMMON NOUN; COUNTABLE; -S; BEGINING WITH VOWEL
:	:	:	:	:	:	:	:
HIRU HOTERU	HIRU HOTERU	HIRU HOTERU	PROPER NOUN	<HOTEL>	HILL HOTEL	HILU HOUTEL	PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT
:	:	:	:	:	:	:	:
SUTON KURABU	SUTON KURABU	SUTON KURABU	COMMON NOUN	<FOOD> <LIVING THING>	STONE CRAB	STOUN KRAEB	COMMON NOUN; COUNTABLE; -S; BEGINING WITH CONSONANT
:	:	:	:	:	:	:	:
<HOTEL>			CATEGORY	<PLACE> <BUILDING> <AGENCY>			
<FOOD>			CATEGORY	<CONCRETE OBJECT>			

FIG.21

2911	2912	2913	2914	2915	2916	2917	2918
KAKI	KAKI	KAKI	COMMON NOUN	<FOOD> <LIVING THING>	OYSTER	XCISTXER	COMMON NOUN; COUNTABLE; -S; BEGINING WITH VOWEL
:	:	:	:	:	:	:	:
HIRU HOTERU	HIRU HOTERU	HIRU HOTERU	PROPER NOUN	<HOTEL>	HILL HOTEL	HILU HOUTEL	PROPER NOUN; UNCOUNTABLE; DEFINITE ARTICLE; CONSONANT
:	:	:	:	:	:	:	:
SUTON KURABU	SUTON KURABU	SUTON KURABU	COMMON NOUN	<FOOD> <LIVING THING>	STONE CRAB	STOUN KRAEB	COMMON NOUN; COUNTABLE; -S; BEGINING WITH CONSONANT
:	:	:	:	:	:	:	:
<HOTEL>			CATEGORY	<PLACE> <BUILDING> <AGENCY>			
<FOOD>			CATEGORY	<CONCRETE OBJECT>			

FIG.22

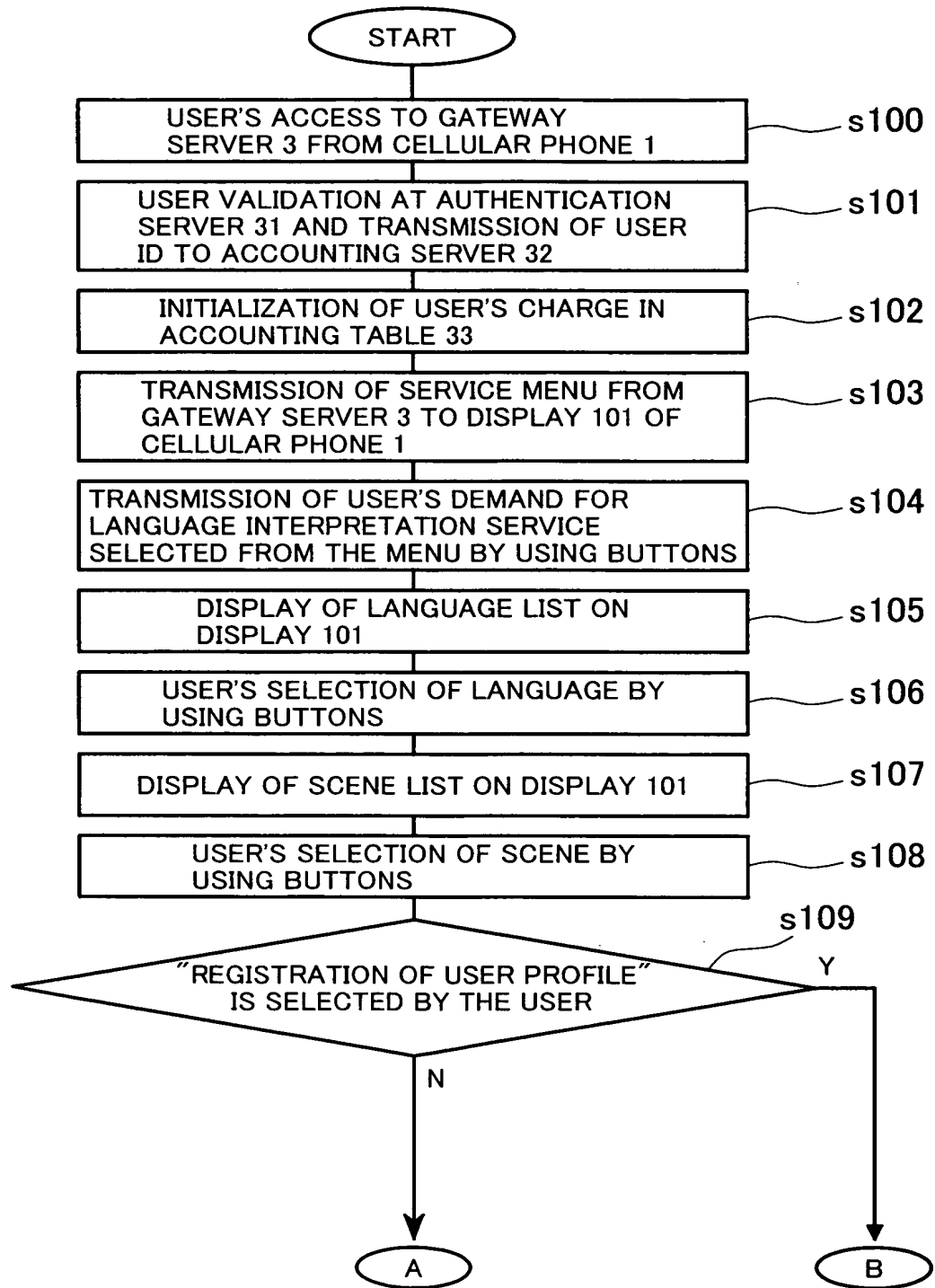
	2611	2612	2613	2614
	SCENE NUMBER	SENTENCE TEMPLATE NUMBER	SENTENCE TEMPLATE	SLOT
2601	1	1001	[]HADOKODESUKA?	HILL HOTEL
2602	1	1002	KONOBASUHA[]NI IKIMASUKA?	HILL HOTEL
	:	:		
2603	3	3004	[]GAHOSIIDESU	STONE CRAB; OYSTER
2604	3	3005	[]HAARIMASUKA?	STONE CRAB; OYSTER
2605	3	3006	[]ARERUGIDESU	EGG
	:			
2606	4	4003	[]GAHIKITUKEWO OKOSIMASITA	SON
	:			

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FIG.23

	1911	1912	1913	1914
	SENTENCE TEMPLATE NUMBER	SENTENCE NUMBER	SENTENCE	TIME SERIES OF FEATURE VECTORS
1901	1001	1001001	HIRUHOTERUHA DOKODESUKA?	A11,A12,...
1902	1002	1002001	KONOBASUHAHIRU HOTERUNIIKIMASUKA?	A21,A22,...
	:	:	:	:
1903	3005	3005001	SUTONKURABUHA ARIMASUKA?	A31,A32,...
1904	3005	3005002	KAKIHAARIMASUKA?	A41,A42,...
	3006	3006001	TAMAGOARERUGIDESU	A51,A52,...
1905	:	:	:	:
1906	4003	4003001	MUSUKOGAHIKITUKEWO OKOSIMASITA	A61,A62,...

FIG.24



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FIG.25

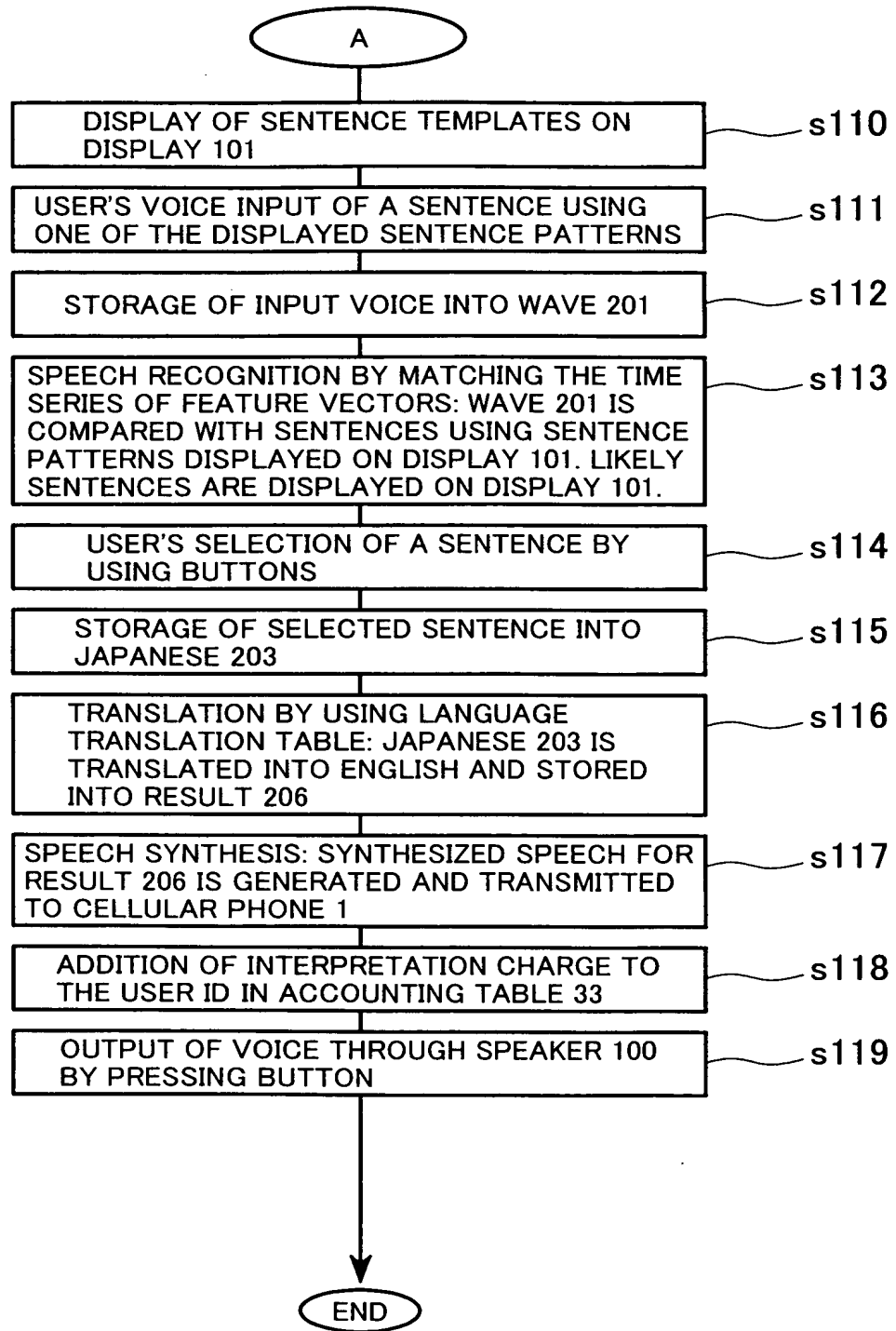
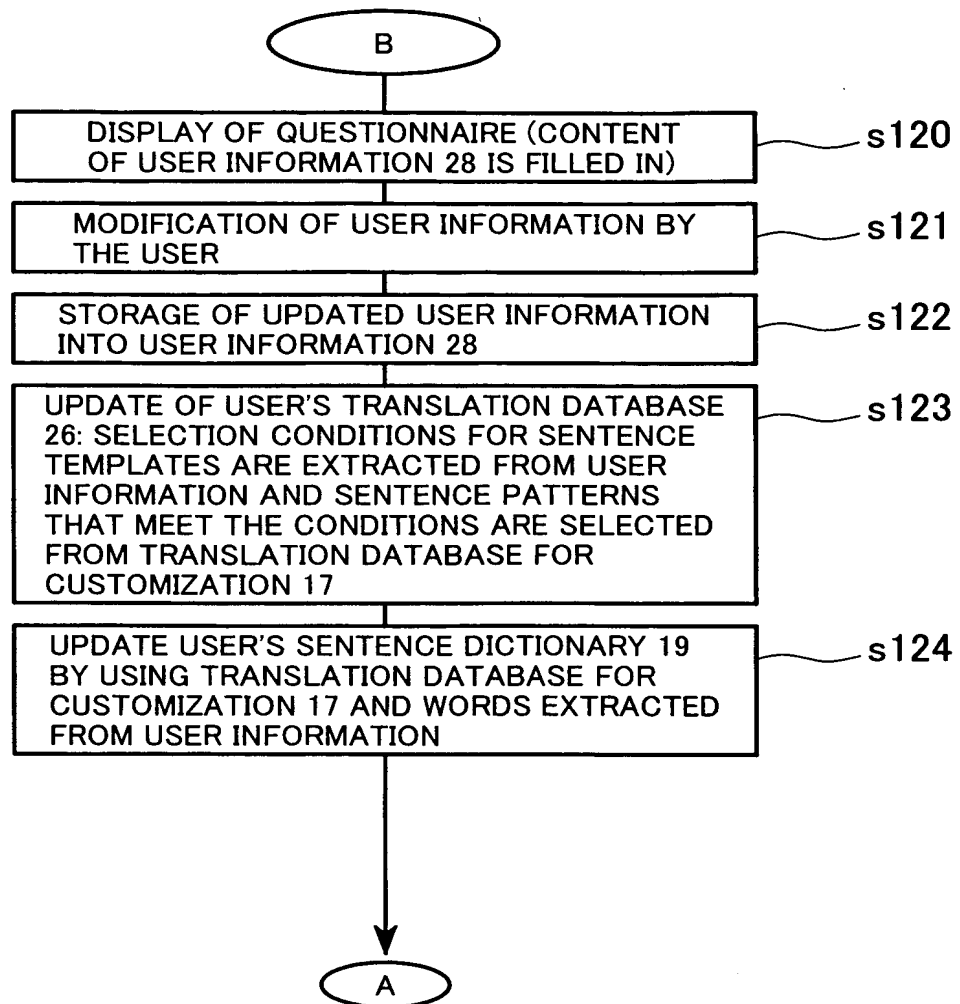


FIG.26



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FIG.27

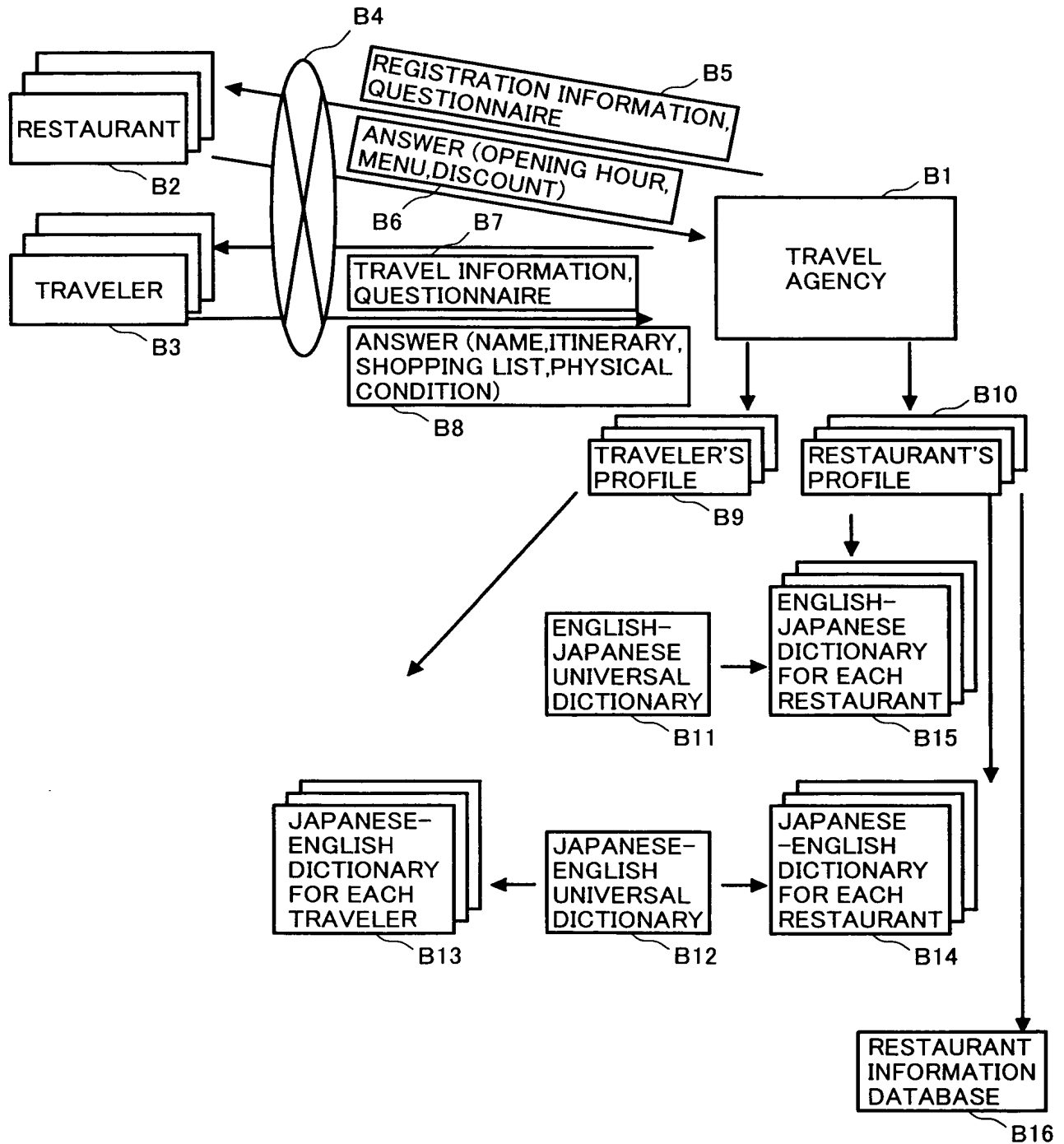
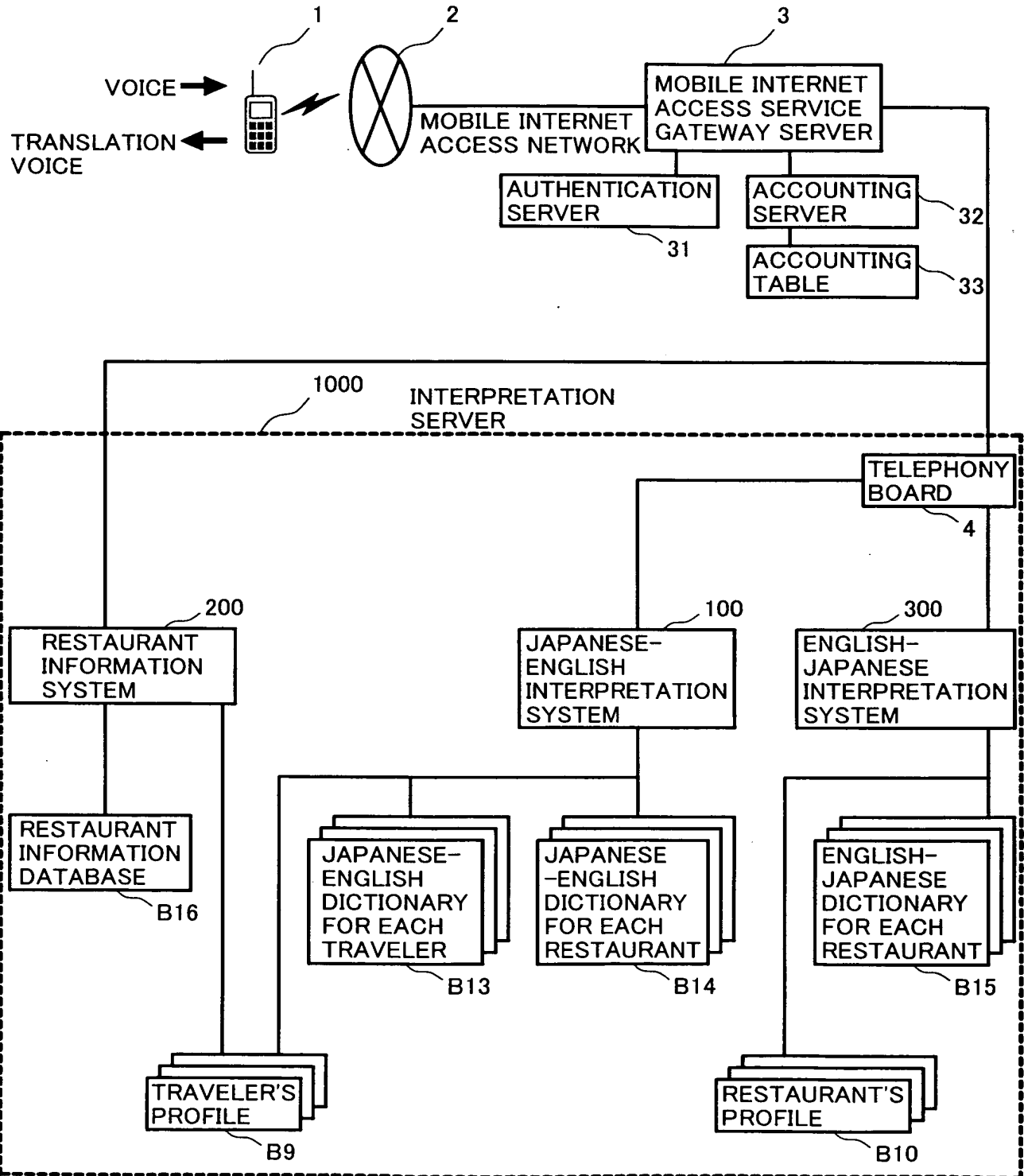


FIG.28



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FIG.29

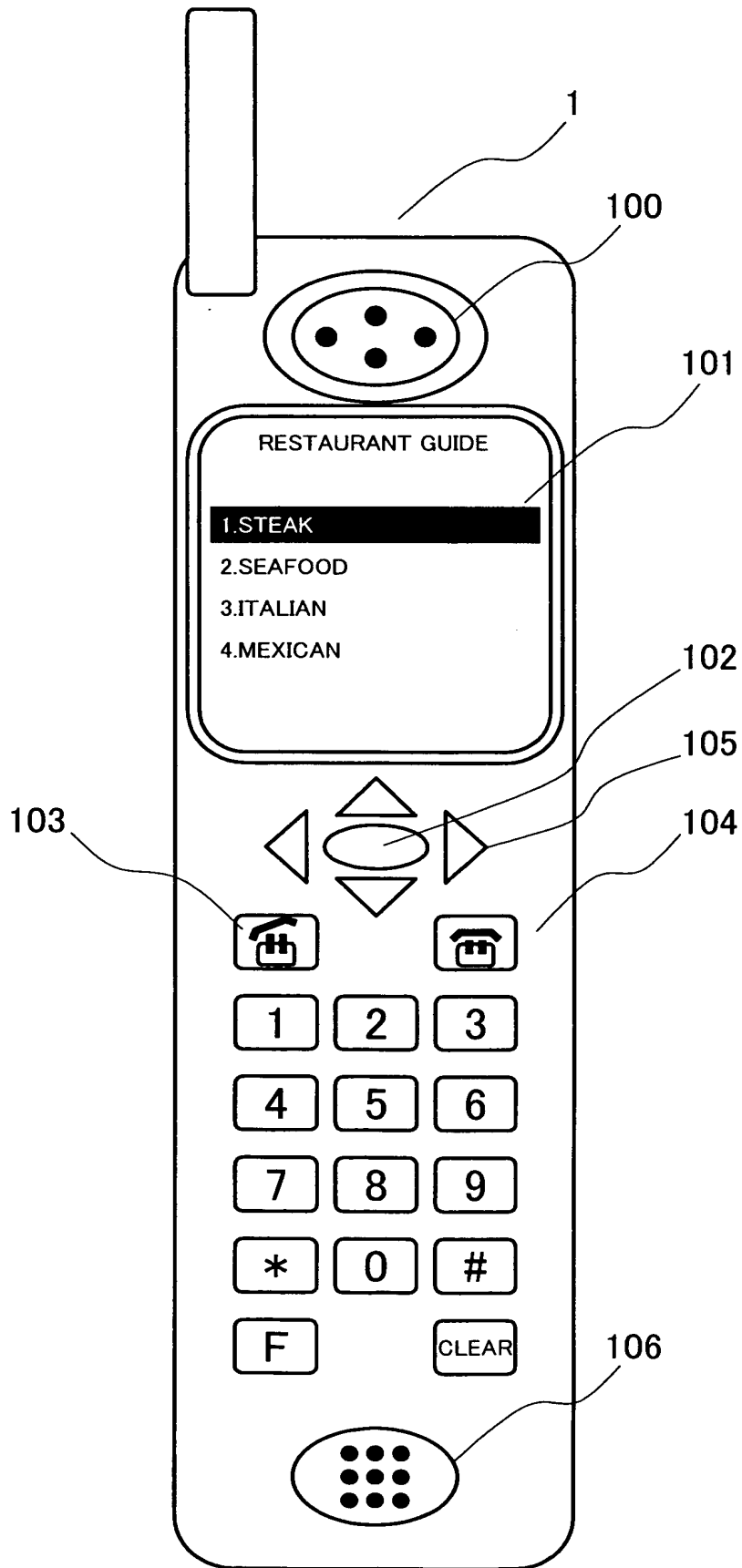
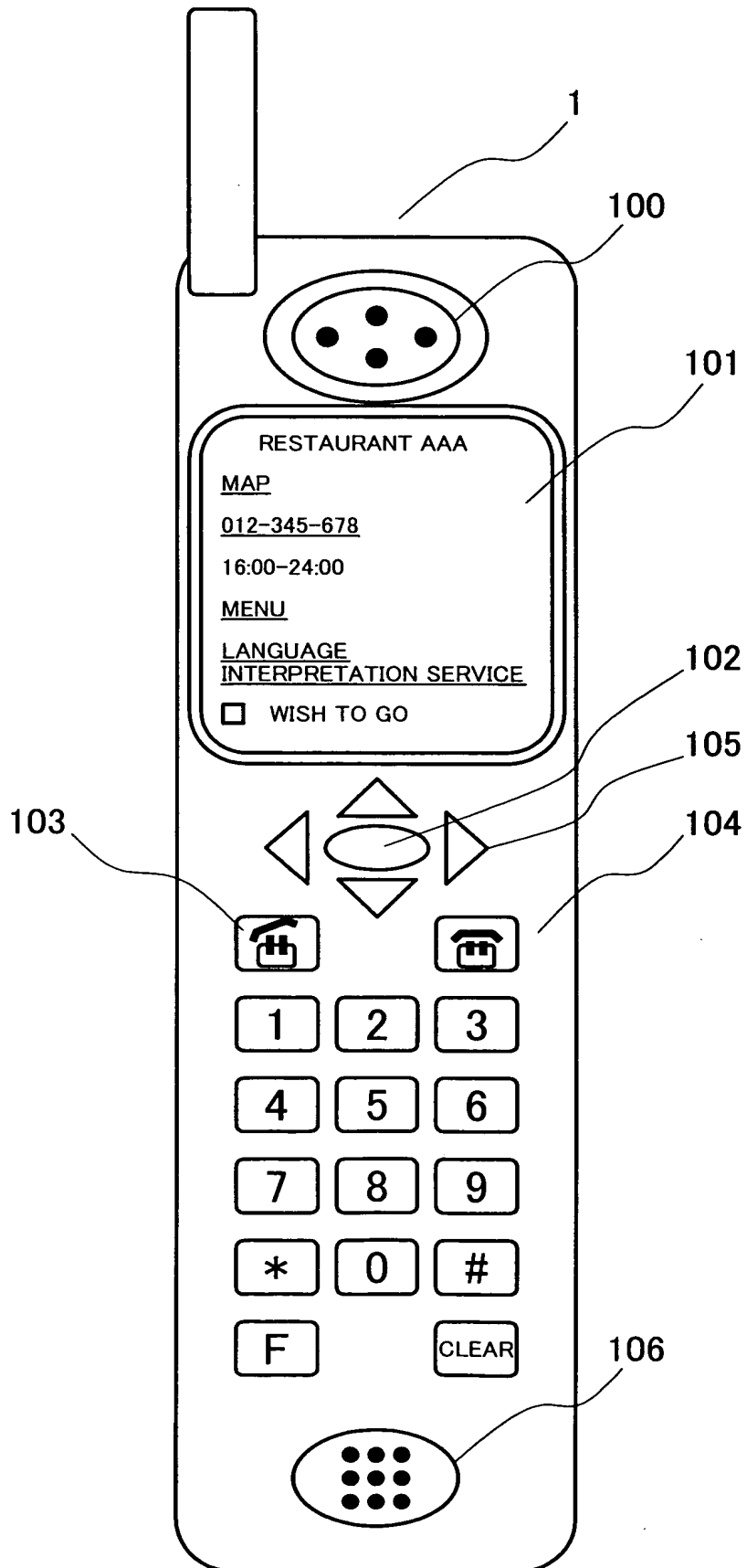


FIG.30



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FIG.31

